

AMENDMENTS TO THE DRAWINGS:

The attached drawing sheets (each labeled "Replacement Sheet" within the margin header, as required) incorporate the changes shown for Figs. 1, 2, 4, 5, 6, 7 and 10.

REMARKS

This paper is responsive to any paper(s) indicated above, and is responsive in any other manner indicated below.

DRAWING OBJECTIONS / DRAWING CHANGES

With regard to the "Drawings" section on pages 2-4 of the Office Action, submitted herewith are attached drawing sheets (each labeled "Replacement Sheet" within the margin header, as required) incorporating changes as indicated within the "AMENDMENTS TO THE DRAWINGS" section of this paper. Regarding other ones of the drawing objections, appropriate amendments have been made to Applicant's specification to address specific objections. As the following is believed to obviate all the listed concerns, reconsideration and withdrawal of the objection to the drawings are respectfully requested. Further, acknowledgment of receipt, and approval, of the drawing changes and Replacement Sheets, are respectfully requested.

DISCLOSURE/SPECIFICATION AMENDMENT(S)

The specification has been objected to because of the Office Action concerns listed within the "Specification" section on page 4 of the Office Action. As the disclosure/specification has been carefully reviewed and has been amended where appropriate in order to address each of the Office Action listed concerns, reconsideration and withdrawal of the objection to the disclosure/specification are respectfully requested. The Examiner's kind amendments suggestions (within the Office Action) have been adopted.

CLAIM OBJECTIONS OBIATED VIA CLAIM AMENDMENT

Claims 1, 2 and 5 have been objected to because of the Office Action concerns listed within the "Claim Objections" section on page 4 of the Office Action. As amendments have been made where appropriate in order to address each of the Office Action listed concerns, reconsideration and withdrawal of the claim objection are respectfully requested.

PENDING CLAIMS

Claims 1-10 were pending, under consideration and subjected to examination in the Office Action. Appropriate claims have been amended, canceled and/or added (without prejudice or disclaimer) in order to adjust a clarity and/or focus of Applicant's claimed invention. That is, such changes are unrelated to any prior art or scope adjustment and are simply refocused claims in which Applicant is present interested. At entry of this paper, Claims 1-10 will be pending for further consideration and examination in the application.

REJECTION UNDER '112, 2ND PAR. OBIATED VIA CLAIM AMENDMENT

Claims 1, 2, 6, 7 and 10 have been rejected under 35 USC '112, second paragraph, as being indefinite for the concerns listed on page 5 of the Office Action. Appropriate ones of such claims have been carefully reviewed and carefully amended where appropriate in order to address the Office Action listed concerns. As the foregoing is believed to have addressed all '112 second paragraph concerns, reconsideration and withdrawal of the '112 second paragraph rejection are respectfully requested.

ALL 35 USC '103 REJECTIONS

All prior art rejections under 35 USC '103 are respectfully traversed, but the present cancellation/amendment of the rejected claims (without prejudice or disclaimer) to obtain a patent (without prejudice or disclaimer) on ones of the allowable claims as quickly as possible, has rendered such rejection(s) obsolete. Thus gratuitous traversal arguments concerning the rejection(s) are omitted for brevity. Further discussions/arguments concerning such rejection(s) are left for the future if/when appropriate. Based upon the following, reconsideration and withdrawal of such rejection(s) are respectfully requested.

All descriptions of Applicant's disclosed and claimed invention, and all descriptions and rebuttal arguments regarding the applied prior art, as previously submitted by Applicant in any form, are repeated and incorporated hereat by reference. Further, all Office Action statements regarding the prior art rejections are respectfully traversed. As additional arguments, Applicant respectfully submits the following.

One important point of Applicant's invention lies in the difference in the order of filters. That is, the filter disclosed in Tachimori is lower in its order by one order than the Type II (Page 7, formula 2) disclosed in Applicant's invention. Therefore, its noise suppression performance is insufficient. In the present invention, a 2nd-order filter 213 and a 1st-order filter (integrator) 216 are provided in order to form the type II filter, and current-output type active circuits are provided at respective front stages thereof so that they can be formed from passive elements.

Next, Midtgaard does not include the detailed description of a loop filter. Therefore, the optimization of the structure is not performed and it can be expected that the noise to be generated is larger than that in Applicant's invention.

As a result of all of the foregoing, it is respectfully submitted that the applied art would not support a '103 obviousness-type rejection of Applicant's claims. Accordingly, reconsideration and withdrawal of such '103 rejections, and express written allowance of all of the rejected claims, are respectfully requested. Further, at this point, it is respectfully submitted as a reminder that, if new art is now cited against any of Applicant's unamended claims, then it would not be proper to make a next action final.

EXAMINER INVITED TO TELEPHONE

The Examiner is herein invited to telephone the undersigned attorneys at the local Washington, D.C. area telephone number of 703/312-6600 for discussing any Examiner's Amendments or other suggested actions for accelerating prosecution and moving the present application to allowance.

RESERVATION OF RIGHTS

It is respectfully submitted that any and all claim amendments and/or cancellations submitted within this paper and throughout prosecution of the present application are without prejudice or disclaimer. That is, any above statements, or any present amendment or cancellation of claims (all made without prejudice or disclaimer), should not be taken as an indication or admission that any objection/rejection was valid, or as a disclaimer of any scope or subject matter.

Applicant respectfully reserves all rights to file subsequent related application(s) (including reissue applications) directed to any/all previously claimed limitations/features which have been subsequently amended or cancelled, or to any/all limitations/features not yet claimed, i.e., Applicant continues (indefinitely) to maintain no intention or desire to dedicate or surrender any limitations/features of subject matter of the present application to the public.

CONCLUSION

In view of the foregoing amendments and remarks, Applicant respectfully submits that the claims listed above as presently being under consideration in the application are now in condition for allowance.

To the extent necessary, Applicant petitions for an extension of time under 37 CFR '1.136. Authorization is herein given to charge any shortage in the fees, including extension of time fees and excess claim fees, to Deposit Account No. 01-2135 (Case No. 843.44318X00) and please credit any excess fees to such deposit account.

Based upon all of the foregoing, allowance of all presently-pending claims is respectfully requested.

Respectfully submitted,

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